

JL Diesel

Installation Instructions

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Thanks for choosing a DCS product that is designed and manufactured in the USA!

Installation Time: 60-90 Minutes

Tools Needed: Wire snake or similar device, Wire strippers/crimpers, Electrical tape, 10 mm Wrench

Contents: 4 M lights, 2 front wheel lights, 2 rear wheel lights, 1 magnet light, 1 rear magnet light, 1 front axle light, frame Harnesses, engine compartment harness "C", & Zip-Ties

Note: Installation should be done when temperature is above 70°F, this will allow the rubber bushings to be more flexible. If the interior of the frame is dirty it is best to wash it out prior to installation.

Step 1: Install wire harnesses. Starting on the passenger side. From under the Jeep, locate the hole in (fig 1) this hole is on the inside of the frame facing the drivetrain. This is where the wiring will exit the frame. Insert your wire snake/tape into the hole in the frame just above the rear lower control arm (fig 2). Insert the snake/tape until it can be pulled through hole in (fig 1). Attach harness where "B Rear" label is attached as pictured in (fig 3). Gently pull the harness through the frame and out of the hole. Repeat this process for the passenger side.

Step 2: Identify light locations. Using your fingers pull the harness plug out of the hole where each light is to be installed. "MID" Lights fit within the round & oval holes under the doors in the middle of the vehicle (fig 4). Front lights fit the holes

directly behind the front wheels (fig 5). Rear wheel lights fit the large hole just behind the rear wheels (fig 6). The front underbody light attaches to the radiator hose support (fig 8). Magnet light is to be used in the middle underbody and plugs into one of two plugs at rear of driver side harness. Rear magnet light attaches directly above rear axle (fig 7).

Step 3: Install lights. When installing lights, push light in at an angle then work in the remaining sections. Do not push from center of light as damage may result.

Attach rear magnet light above rear axle. Route wire towards passenger side frame rail and attach to “B” harness. Use supplied zip ties to secure wire.

Attach center magnet light to the rear of the driver side harness. There is enough wire to route in a manner where it will not be affected by heat from the exhaust. Use zip-ties to secure the wire, find a flat steel location where light will not be obstructed.

The “MID” lights can now be installed. Pull plug out of corresponding holes inside of frame. Plug in lights the insert into the hole at an angle, working in remaining section.

Rear lights fit into frame tube behind the rear wheels. Firmly push light all the way in. Wiring should be attached to stock wheel sensor wire using zip-ties. Connect wiring to rear of A & B harnesses.

Front lights fit within hole in frame behind front wheels. Insert wire lead from light into hole. Feed wire down until it can be connected to the harness.

Remove 10mm nut from radiator hose support bracket (fig 8). Use the nut to attach the front axle light. DO NOT OVER TIGHTEN. Route wire to the side and up into engine bay. Be sure to secure wire so it does not contact any moving parts. Connect to the “C” harness.

Step 4: Once all wiring is run and lights installed, it is time to connect the harnesses. Route the male end of each harness up along the frame rail and into the engine bay. The “C” harness can now be connected to join the two harnesses together. This harness is reversible to accommodate a power connection on either the driver or passenger side.

Note: When routing the wire harnesses up into the engine bay be sure to route in a manner where the wire will not come in contact with the exhaust. We recommend routing behind existing shielded wire located above the exit hole on

both sides (Fig 1). Once the wiring is all routed properly, connect the “C” harness to a switched, relay protected power source.

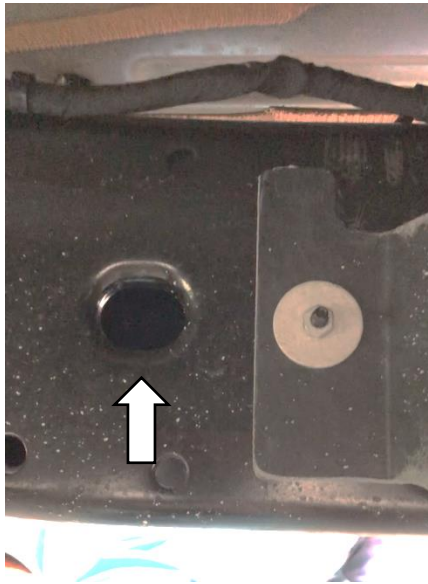


Figure 1

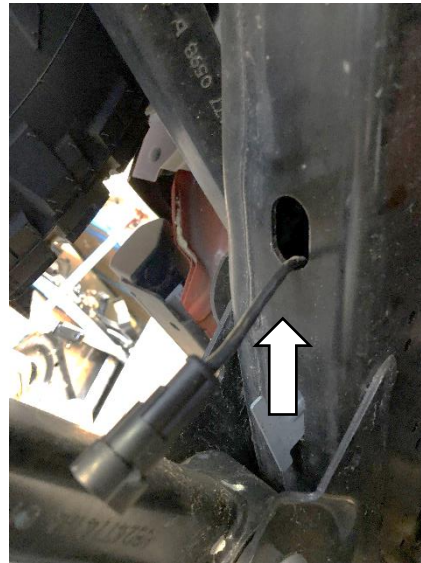


Figure 2



Figure 3

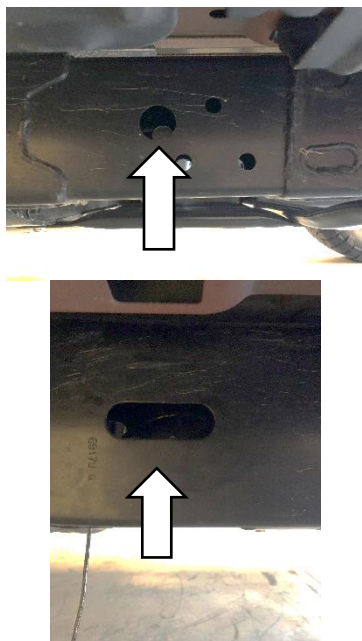


Figure 4



Figure 5

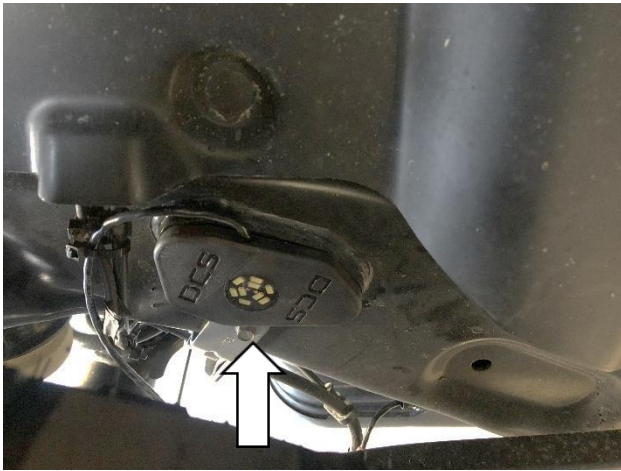


Figure 6



Figure 7

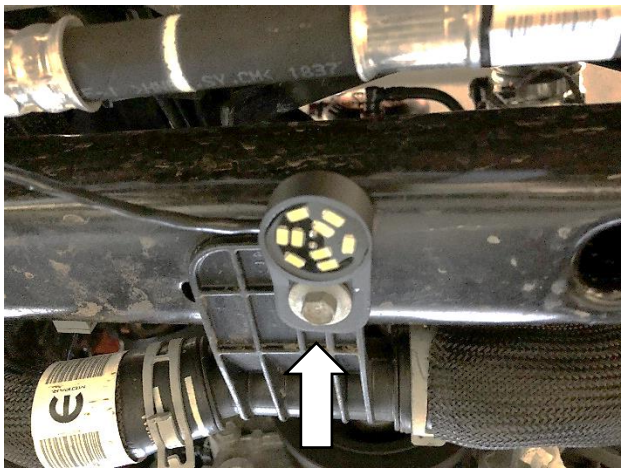


Figure 8

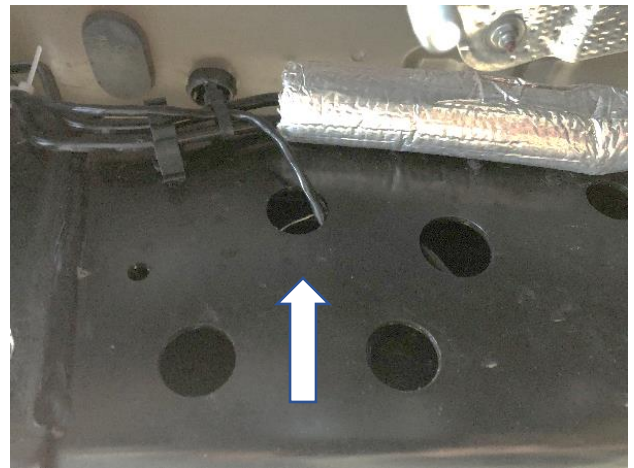


Figure 9